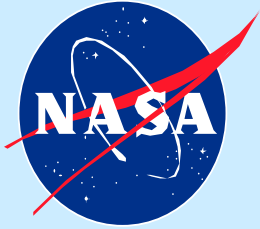


Executive Order 13423 - Strengthening Federal Environmental, Energy, and Transportation Management

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AGENDA

- **Executive Order 13423 Overview**
- **Agency Goals, Requirements, Impacts, Tasks and Unknowns**
 - Environmental Management System
 - Energy efficiency / Renewable energy
 - Water conservation
 - Pollution Prevention, Management of Toxic and Hazardous Materials, and Recycling
 - High performance building
 - Acquisition
 - Vehicle fleet management
 - Electronics stewardship

Executive Order 13423 Overview

- **EMS required at all appropriate organizational levels**
 - Primary management approach for addressing agency environmental aspects including energy and transportation
 - Requires establishment of agency objectives and targets
- **Agencies shall implement sustainable practices for:**
 - Energy efficiency
 - Renewable energy
 - Water conservation
 - Acquisition
 - Electronics stewardship
 - Toxic & hazardous chemicals
 - Pollution prevention & recycling
 - High performance buildings
 - Vehicle fleet management

Sustainable – create and maintain conditions, under which humans and nature can exist in productive harmony, that permit fulfilling the social, and other requirements of present and future generations of Americans

Executive Order 13423 Overview

- **Requires agency programs for:**
 - Environmental management training
 - Environmental compliance and audit
 - Leadership rewards for outstanding environmental, energy and transportation management
- **Contractors, tenants, and concessionaires**
 - Ensure that future contracts for contractor operation of GOCO facilities or vehicles comply
 - Ensure that agreements, permits, leases, licenses & legally binding agreements with tenants & concessionaires comply
- **Requires reports on agency implementation**

Executive Order 13423 Overview

- **Consolidates 5 Executive Orders**

- EO 13101 - Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition
- EO 13123 - Greening the Government Through Efficient Energy Management
- EO 13134 - Developing and Promoting Biobased Products and Bioenergy
- EO 13148 - Greening the Government Through Leadership in Environmental Management
- EO 13149 - Greening the Government Through Federal Fleet and Transportation Efficiency

- **Incorporates 2 MOU's**

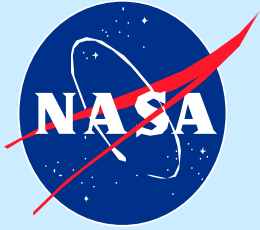
- High Performance Buildings MOU signed in January 2006
- 2004 Federal Electronics Stewardship MOU

Interagency Leadership

- **Steering Committee on Strengthening Federal Environmental, Energy, and Transportation Management**
 - Advises Chairman, CEQ, and Director, OMB
 - Chaired by the Federal Environmental Executive (FEE)
 - Includes senior Agency officials
 - Subcommittees to be established representing previous work groups
- **OMB responsible for issuing instructions concerning**
 - Periodic review of agency implementation (scorecards)
 - Budgets and appropriation matters
 - Implementation of acquisition goals and Amendments to FAR
- **FEE monitors agency performance**
 - Submit a report to the President every 2 years on agency activities

Future Instructions

- **Instruction(s) to Executive Order to be issued will establish implementation requirements, including more detail on reporting requirements**
 - Draft general instruction out for comment in February, expected to be issued in March
 - Additional instructions / advisories expected for 8 sustainable practices
 - E.g., draft **renewable** energy guidance out for review in February



Executive Order 13423 - Agency Goals, Requirements, Impacts, Future Tasks and Unknowns

Environmental Management Systems

- **Agency Goals**
 - EMS required at all appropriate organizational levels
 - Primary management approach for addressing agency environmental aspects including sustainable practices
 - Requires establishment of agency objectives and targets
- **Requirements / Impacts**
 - Establish NASA Headquarters EMS – Completed
 - Agency objectives and targets included in HQS EMS – Completed
 - Revise NASA EMS to ensure 8 sustainable practices addressed
 - Commitment to proactive communications with interested parties
- **Future Tasks**
 - Revise / update NPR 8553.1, NASA EMS, in FY 2008
 - Include sustainable practices in EMS management review
- **Unknowns**
 - Future reporting requirements to address sustainable practices
 - Proactive communications not described / future guidance planned

Energy Efficiency

- **Agency Goal**

- Reduce Goal Subject facilities energy intensity (Btu per gross square foot) 3% annually from FY 2003 baseline by end of FY 2007-2015, or 30% by end of FY 2015

- **Requirements / Impacts**

- Double the energy intensity reduction required by EAct 2005

- **Future Tasks**

- Update NPR 8570.1 for EO 13423 & EAct 2005 requirements
 - Require Centers update energy plans for Agency plan due 1/1/08

- **Unknowns**

- Will final DOE renewable energy guidance (due 4/24/07) phase-out previous EO practice of omitting purchased renewable energy from Btu/sf metric?
- Which final Instruction strategies apply to Btu/sf Goal Excluded?
- How will DOE guidance on reinvesting utility cost savings into additional efficiency projects (due Instr.+90d) help agencies?

Renewable Energy

- **Agency Goal**
 - Meet statutory renewable energy use goal at least half from “new” renewable sources placed into service after 1/1/1999
 - Implement feasible on-site renewable energy generation projects
- **Requirements / Impacts**
 - EAct 2005 requires equivalent of 3/5/7.5% of NASA total electricity usage come from renewables by FY 2007/2010/2013; hence EO requires 1.5/2.5/3.75% from new, respectively
- **Future Tasks**
 - Update NPR 8570.1 for EO 13423 & EAct 2005 requirements
 - Require Centers update energy plans for Agency plan due 1/1/08
 - Conduct SII-funded renewable energy assessment of Centers
- **Unknowns**
 - Will final DOE renewable energy guidance count renewable energy in utility company generation mix? (draft was silent)
 - Will above guidance limit that no more than 50% of renewable energy purchases may come from Certificates (RECs)?

Water Conservation

- **Agency Goal**

- Reduce water intensity 2% annually from FY 2007 baseline by end of FY 2008-2015, or 16% by end of FY 2015

- **Requirements / Impacts**

- First Federal water intensity metric (revoked EO counted plans approved and best management practices (BMP) implemented)

- **Future Tasks**

- Update NPR 8570.1 for EO 13423 requirements
 - Require Centers update water plans for Agency plan due 1/1/08

- **Unknowns**

- How will DOE water guidance (due 4/24/07, no draft yet) define FY 2007 baseline and exclusions?
- Will above guidance still require BMP implementation and related bean counting?

Pollution Prevention, Management of Toxic and Hazardous Materials, and Recycling

- **Agency Goals**

- Reduce the quantity of toxic and hazardous chemicals & materials acquired, used, or disposed of
- As appropriate, increase the diversion of solid waste
- Maintain waste prevention and recycling programs

- **Requirements / Impacts**

- By Jan. 2008, establish goals & actions to identify, reduce the release, and use of toxic and hazardous chemicals & materials
- Comply with Emergency Planning and Community Right-to-Know Act §301 to §313 (emergency planning, emergency release notification, hazardous chemical storage reporting, and toxic chemical release inventory), and P2 Act §6607 (reporting)
- By April 24, 2007, establish solid waste diversion goals achievable by Dec. 31, 2010
- Waste prevention and recycling programs at each facility, compatible with State & local requirements, and with designated facility coordinators

Pollution Prevention, Management of Toxic and Hazardous Materials, and Recycling

- **Future Tasks**

- In establishing program goals & actions, investigate existing environmental hazard lists, State and local requirements for compatibility, and appropriate chemical lists consistent with regional-based and watershed-based environmental improvement efforts

- **Unknowns**

- New P2 NPR or requirements incorporate into NPR 8553.1, NASA EMS
- Does EO 13423 §3(a)(iv) “sustainable practices for acquisition” include “space exploration equipment” acquisition (like DOD’s applying P2 practices to “weapons systems” acquisition)? [Or, is “acquisition” limited to consumer products and facilities related services?]

Acquisition

- **Agency Goals**

- Require in agency acquisitions of goods and services,
 - Use of sustainable practices, including acquisition of biobased, recycled-content products, energy efficient, water efficient, environmentally-preferable products
 - Use of paper of at least 30% post-consumer fiber based

- **Requirements / Impacts**

- TBD by FAR revision process, including public comment

- **Future Tasks**

- Revise environmental directives and NASA FAR Supplement (NFS) to reflect FAR revisions

- **Unknowns**

- Unclear meaning of “sustainable practices for acquisition” and its impact on NASA acquisition requirements development process

High Performance Buildings

- **Agency Goals**
 - Ensure that new buildings and major renovation projects, comply with the *Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings*
 - Ensure that, by 2015, at least 15 percent of existing building inventory incorporates the sustainable design practices found in the Guiding Principles.
- **Requirements / Impacts**
- **Future Tasks**
- **Unknowns**

Fleet Management

- **Agency Goals**

- Reduce covered petroleum consumption in fleet vehicles by 2% annually through 2015 relative to FY 2005 baseline
- Increase non-petroleum based fuel consumption by at least 10 percent annually relative to FY 2005 baseline
- Use plug-in hybrid (PIH) vehicles when commercially available at a cost reasonably comparable, on a life-cycle cost basis

- **Requirements / Impacts**

- **Future Tasks**

- **Unknowns**

Electronics Stewardship

- **Agency Goals**

- When acquiring electronic products, 95% of products are Electronic Product Environmental Assessment Tool (EPEAT)-registered , unless there is no EPEAT standard for such product
- Enable Energy Star® features on computers and monitors
- Establish and implement policies to extend the useful lifetime of electronic equipment
- Use environmentally sound practices with respect to disposition of electronic equipment

- **Requirements / Impacts**

- Must develop/implement plan approved by NASA FEE, CIO, Logistics, and Procurement
- Appears minimal impact in purchasing, because ODIN already purchasing machines which happen to be EPEAT registered

- **Future Tasks**

- Working with OCIO to implement actions at Agency level through ODIN, SEWP, and hw/sw standards

- **Unknowns**

- Some technical solutions potentially conflict with other IT programs, such as night backups and patch delivery.

Contacts

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